FIG. 1

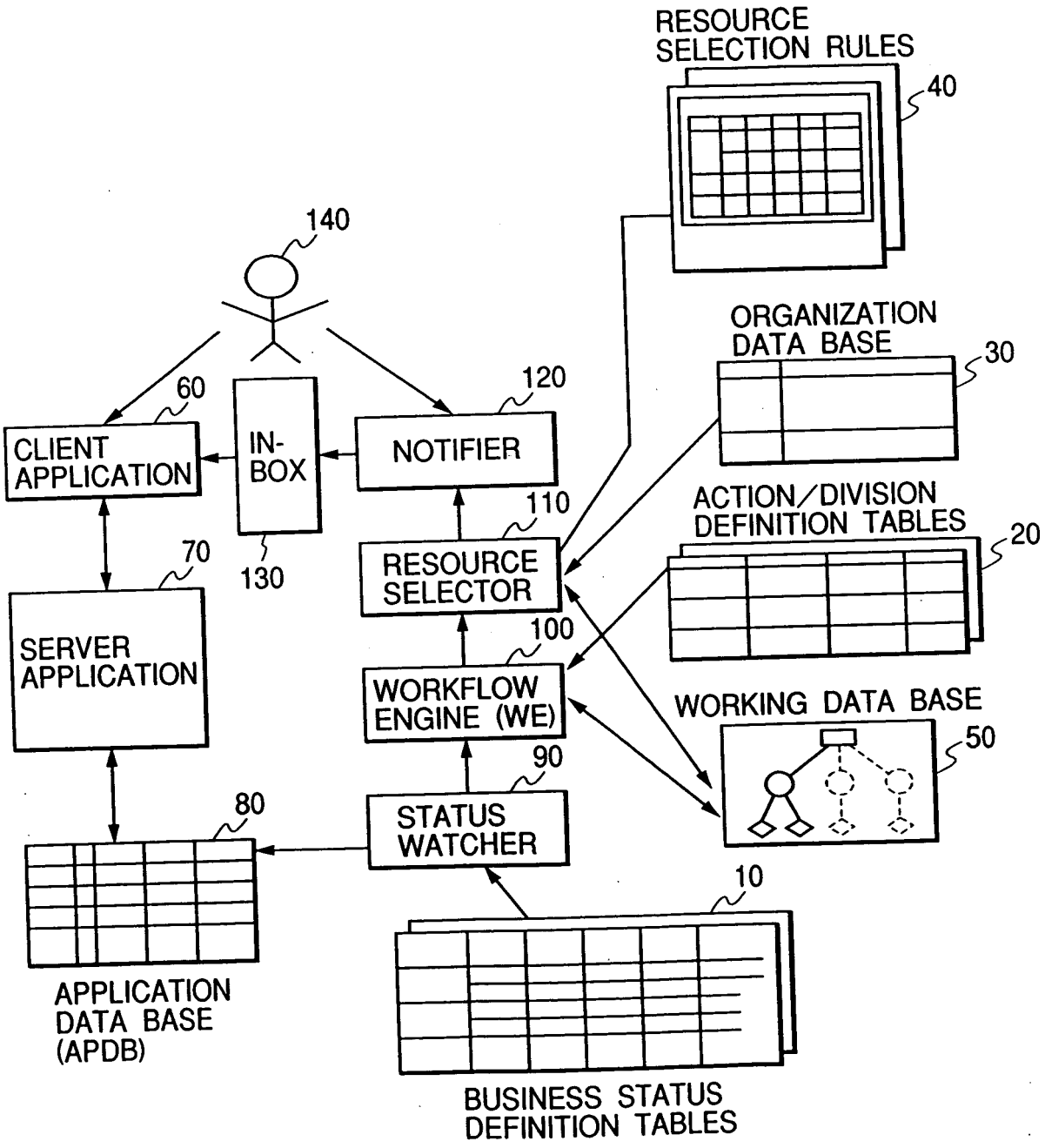

RESOURCE SELECTION RULES
40
140
ORGANIZATION DATA BASE
30
60
120
CLIENT APPLICATION
IN-BOX
NOTIFIER
110
ACTION/DIVISION DEFINITION TABLES
20
70
130
RESOURCE SELECTOR
SERVER APPLICATION
100
WORKFLOW ENGINE (WE)
WORKING DATA BASE
50
90
80
STATUS WATCHER
10
APPLICATION DATA BASE (APDB)
BUSINESS STATUS DEFINITION TABLES

FIG. 2

APPLICATION DATA BASE 80

2010 BUSINESS ID NO.	...	2020 START OF ESTIMATION	2030 COMPLETION OF ESTIMATION	...
2100 001				

FIG. 3

BUSINESS STATUS DEFINITION TABLE 10

3100 BUSINESS STATUS NAME	3010 STATUS	3020 BUSINESS ID NO.	3030 START OF ESTIMATION	3040 COMPLETION OF ESTIMATION	3050
INQUIRY	START	ENTERED	NULL		
	COMPLETION		ENTERED		
ESTIMATION	START	ENTERED		NULL	
	COMPLETION			ENTERED	

3110

FIG. 4

ACTION/DIVISION DEFINITION TABLE 20

	4010 BUSINESS STATUS NAME	4020 ACTION NAME	4030 BUSINESS PROCESSING STEP	4040 DIVISION NODE
4100	INQUIRY	CREATION OF INQUIRY DOCUMENT	INQUIRY	(SALES)
4110	ESTIMATION		ESTIMATION	(SALES)

FIG. 5

ORGANIZATION DATA BASE 30

	5010 DIVISION NODE	5020 ORGANIZATIONAL STRUCTURE
5100	(SALES)	(DIRECT RETAIL SALES DEPT.) — (SALES SECTION 1) (WHOLESALE DEPT.) — (SALES SECTION 2) (SALES SECTION 3)
5110	(DESIGN)	

FIG. 6

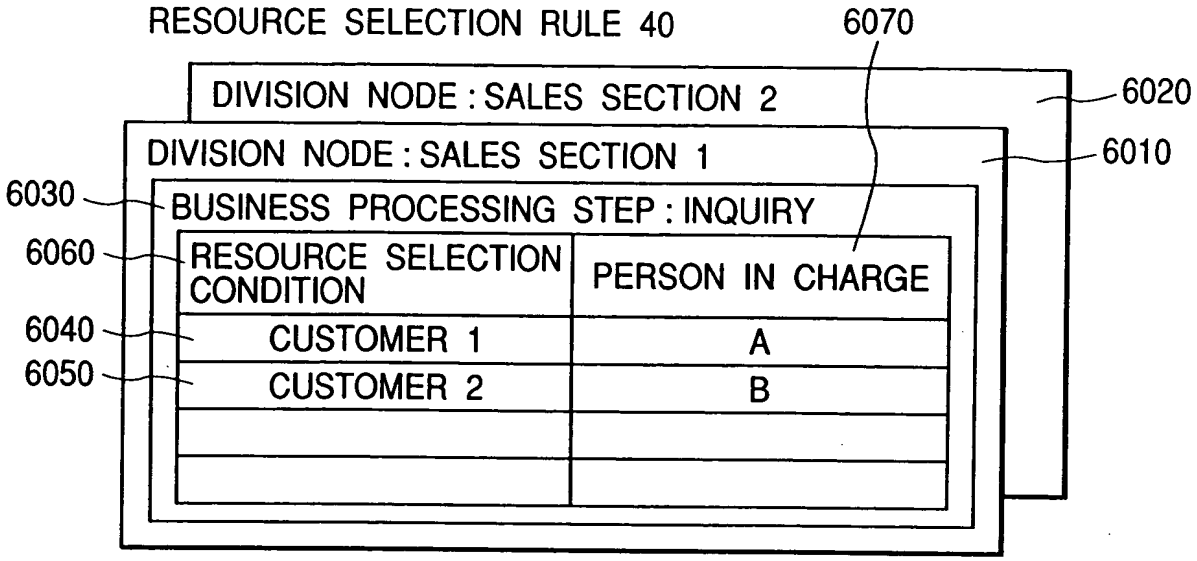

RESOURCE SELECTION RULE 40
6070
DIVISION NODE : SALES SECTION 2
6020
DIVISION NODE : SALES SECTION 1
6010
6030
BUSINESS PROCESSING STEP : INQUIRY
6060
RESOURCE SELECTION CONDITION
PERSON IN CHARGE
6040
CUSTOMER 1
A
6050
CUSTOMER 2
B

FIG. 7

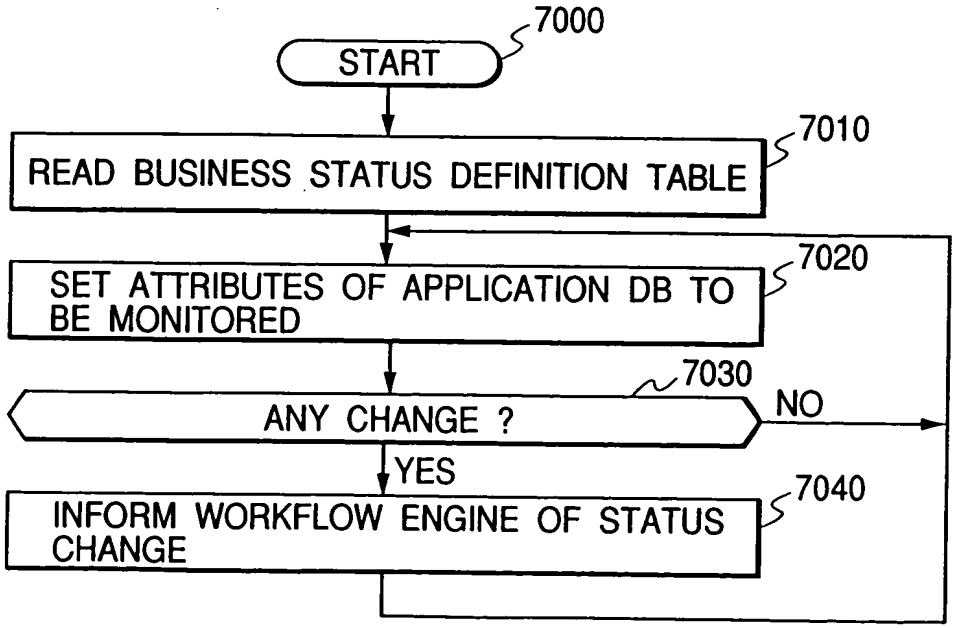

7000
START
7010
READ BUSINESS STATUS DEFINITION TABLE
7020
SET ATTRIBUTES OF APPLICATION DB TO BE MONITORED
7030
ANY CHANGE ?
NO
YES
7040
INFORM WORKFLOW ENGINE OF STATUS CHANGE

FIG. 8

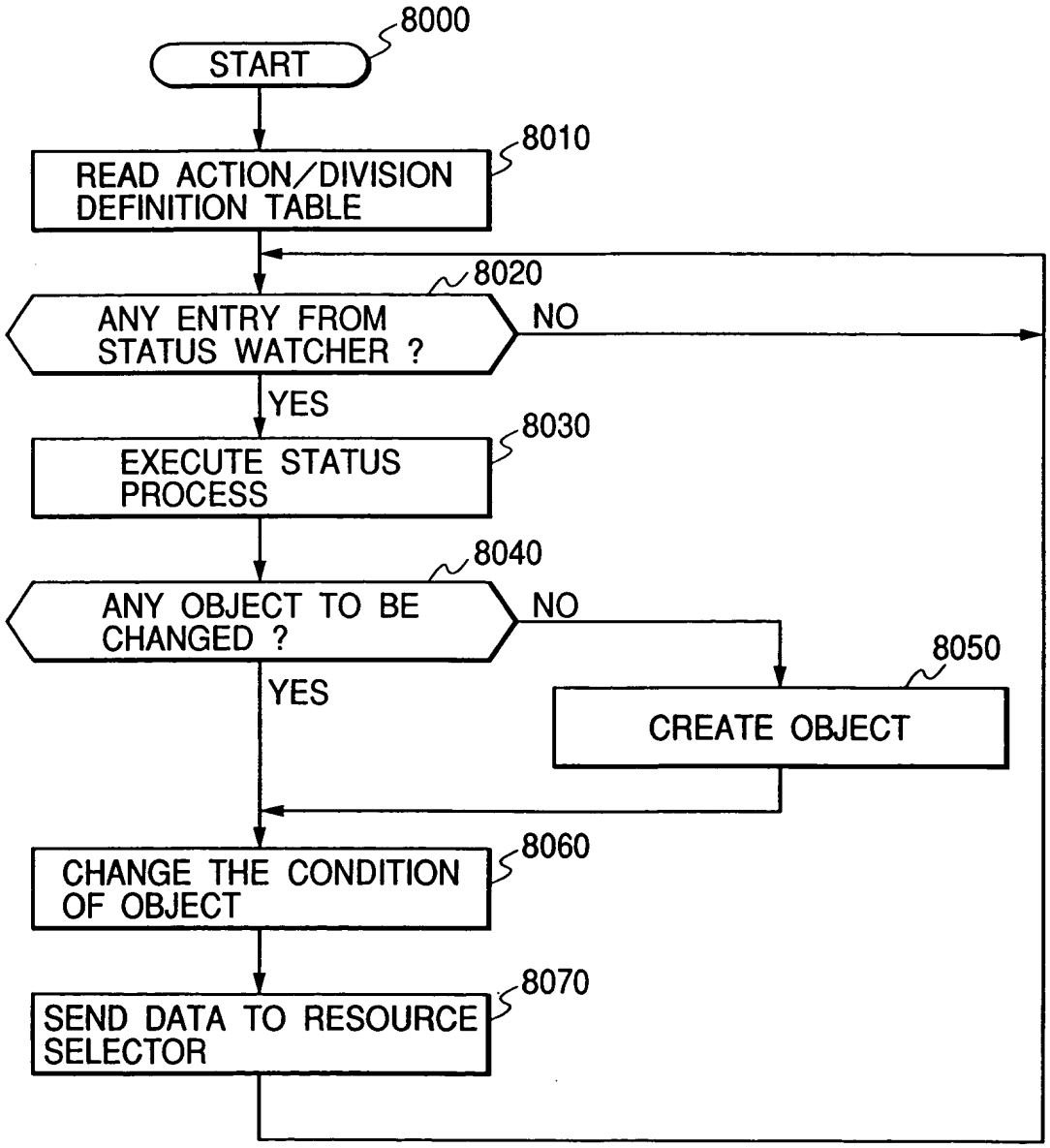

8000
START
8010
READ ACTION/DIVISION DEFINITION TABLE
8020
ANY ENTRY FROM STATUS WATCHER ?
NO
YES
8030
EXECUTE STATUS PROCESS
8040
ANY OBJECT TO BE CHANGED ?
NO
YES
8050
CREATE OBJECT
8060
CHANGE THE CONDITION OF OBJECT
8070
SEND DATA TO RESOURCE SELECTOR

FIG. 9

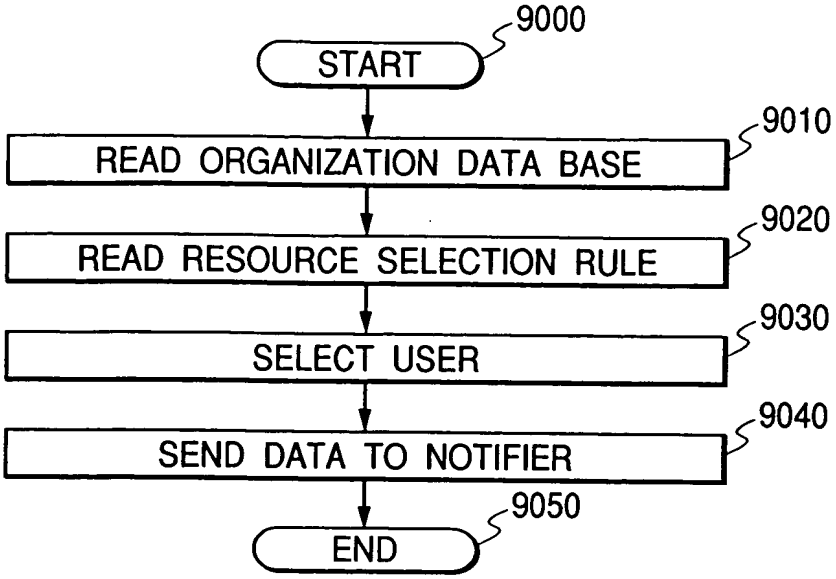

9000
START
READ ORGANIZATION DATA BASE
9010
READ RESOURCE SELECTION RULE
9020
SELECT USER
9030
SEND DATA TO NOTIFIER
9040
END
9050

FIG. 10

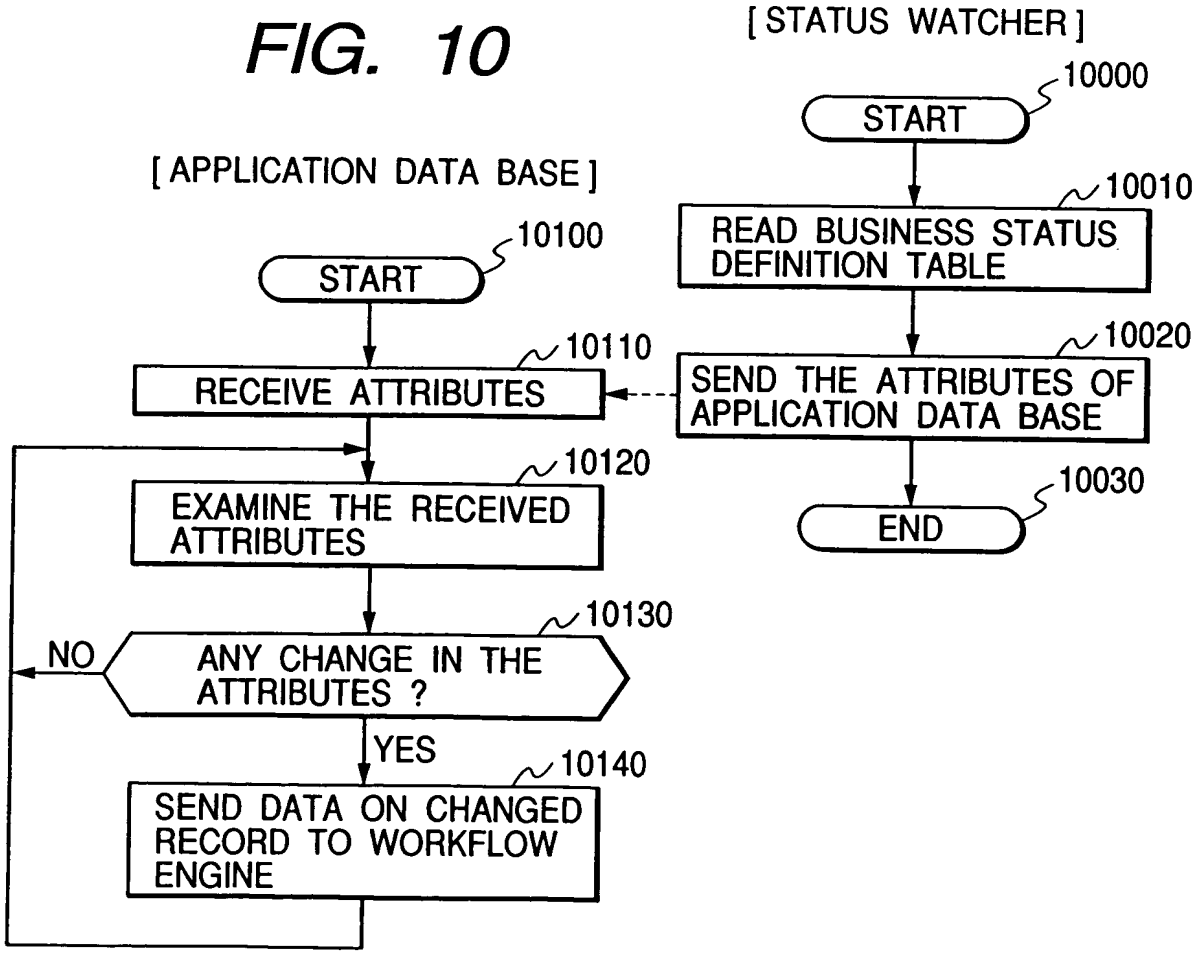

[APPLICATION DATA BASE]
10100
START
10110
RECEIVE ATTRIBUTES
10120
EXAMINE THE RECEIVED ATTRIBUTES
10130
NO
ANY CHANGE IN THE ATTRIBUTES ?
YES
10140
SEND DATA ON CHANGED RECORD TO WORKFLOW ENGINE
[STATUS WATCHER]
10000
START
10010
READ BUSINESS STATUS DEFINITION TABLE
10020
SEND THE ATTRIBUTES OF APPLICATION DATA BASE
10030
END

FIG. 11

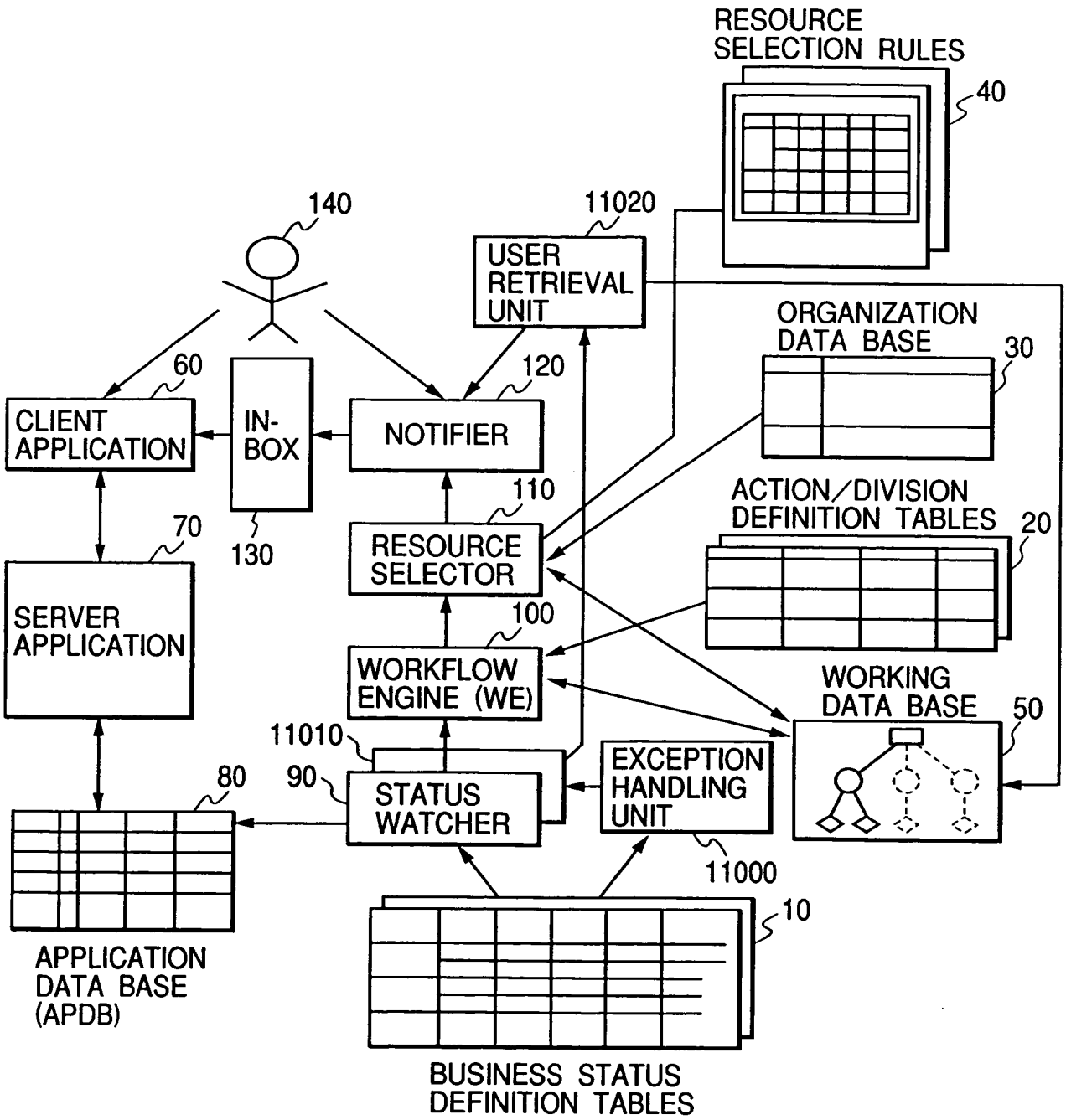

RESOURCE SELECTION RULES
40
140
11020
USER RETRIEVAL UNIT
ORGANIZATION DATA BASE
30
60
120
CLIENT APPLICATION
IN-BOX
NOTIFIER
110
ACTION/DIVISION DEFINITION TABLES
20
70
130
RESOURCE SELECTOR
SERVER APPLICATION
100
WORKFLOW ENGINE (WE)
WORKING DATA BASE
50
11010
90
80
STATUS WATCHER
EXCEPTION HANDLING UNIT
11000
10
APPLICATION DATA BASE (APDB)
BUSINESS STATUS DEFINITION TABLES

FIG. 12

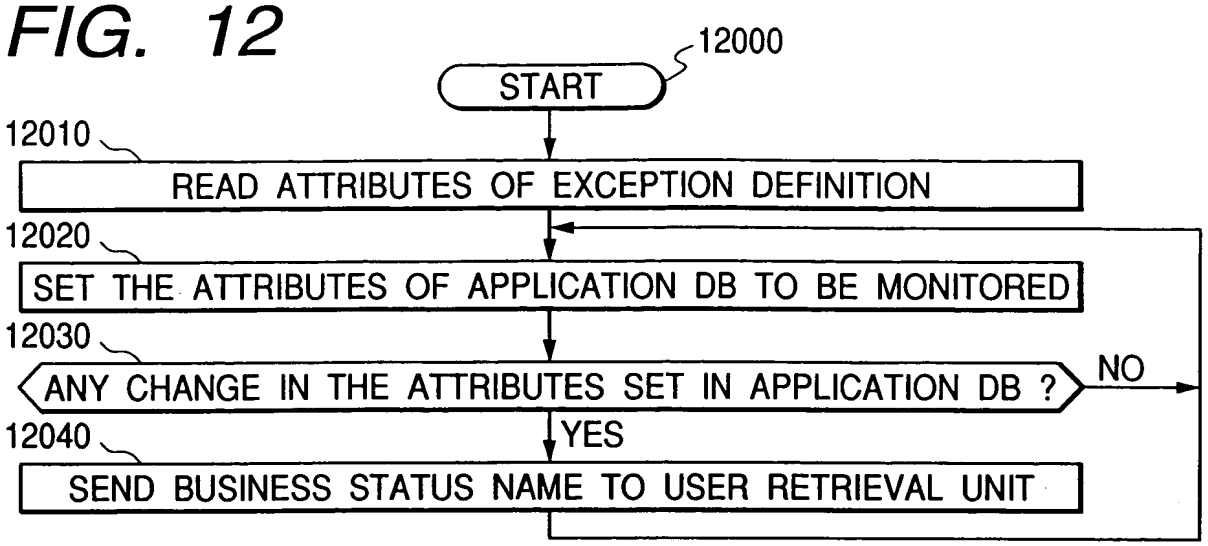


FIG. 13

CHANGE →

BUSINESS STATUS NAME	STATUS	BUSINESS ID NO.	START OF ESTIMATION	COMPLETION OF ESTIMATION	
INQUIRY	START	ENTERED	NULL		
	COMPLETION		ENTERED		
ESTIMATION	START	ENTERED		NULL	
	COMPLETION			ENTERED	

FIG. 14

CHANGE →

BUSINESS STATUS NAME	STATUS	BUSINESS ID NO.	START OF ESTIMATION	COMPLETION OF ESTIMATION	
INQUIRY	START	ENTERED	NULL		
	COMPLETION		ENTERED		
ESTIMATION	START	ENTERED		NULL	
	COMPLETION			ENTERED	
ARRANGEMENT	START		ENTERED		

FIG. 15

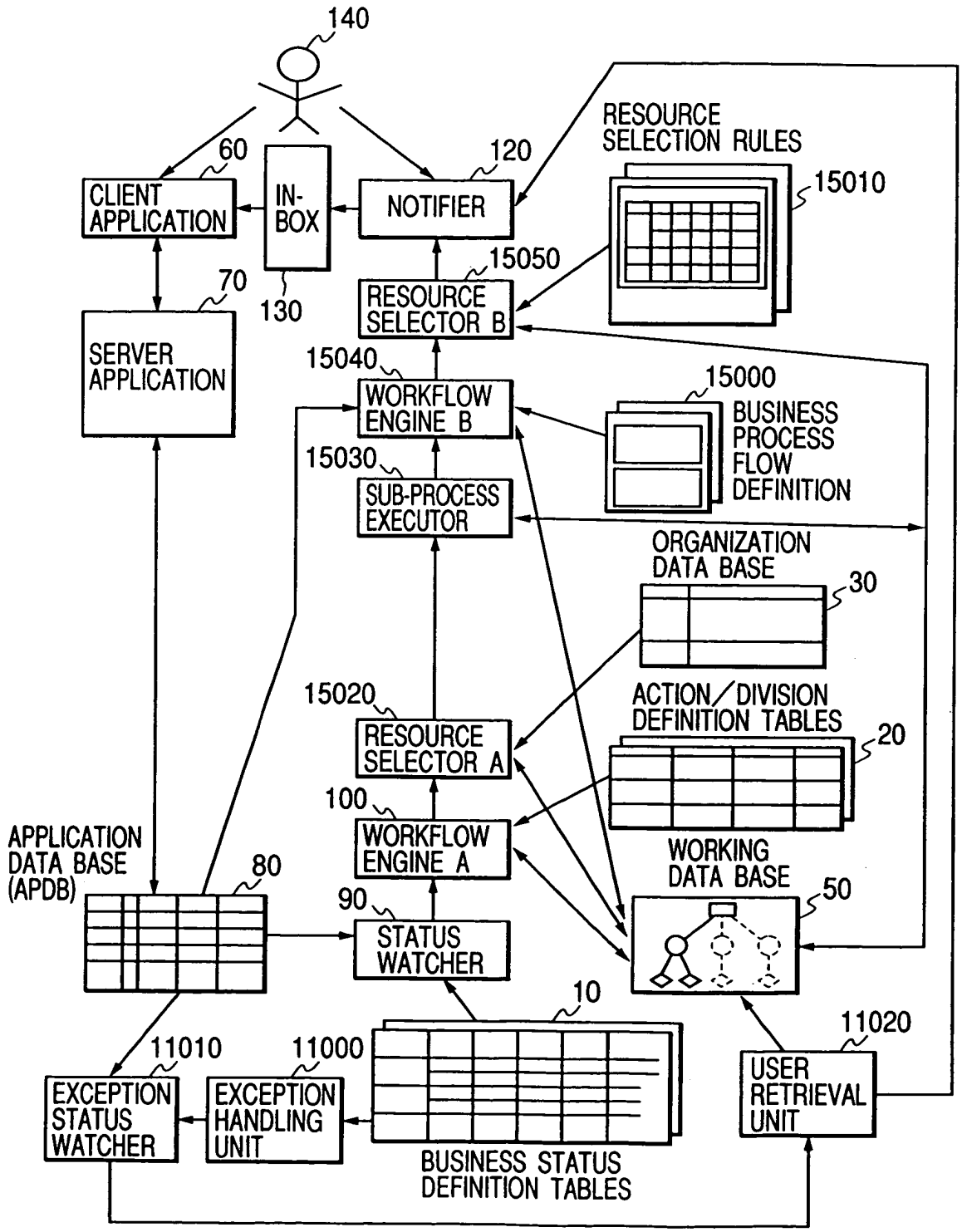

140
60
CLIENT APPLICATION
IN-BOX
120
NOTIFIER
RESOURCE SELECTION RULES
15010
70
SERVER APPLICATION
130
15050
RESOURCE SELECTOR B
15040
WORKFLOW ENGINE B
15000
BUSINESS PROCESS FLOW DEFINITION
15030
SUB-PROCESS EXECUTOR
ORGANIZATION DATA BASE
30
15020
RESOURCE SELECTOR A
ACTION/DIVISION DEFINITION TABLES
20
100
WORKFLOW ENGINE A
APPLICATION DATA BASE (APDB)
80
90
STATUS WATCHER
WORKING DATA BASE
50
10
11020
11010
11000
EXCEPTION STATUS WATCHER
EXCEPTION HANDLING UNIT
USER RETRIEVAL UNIT
BUSINESS STATUS DEFINITION TABLES

FIG. 16

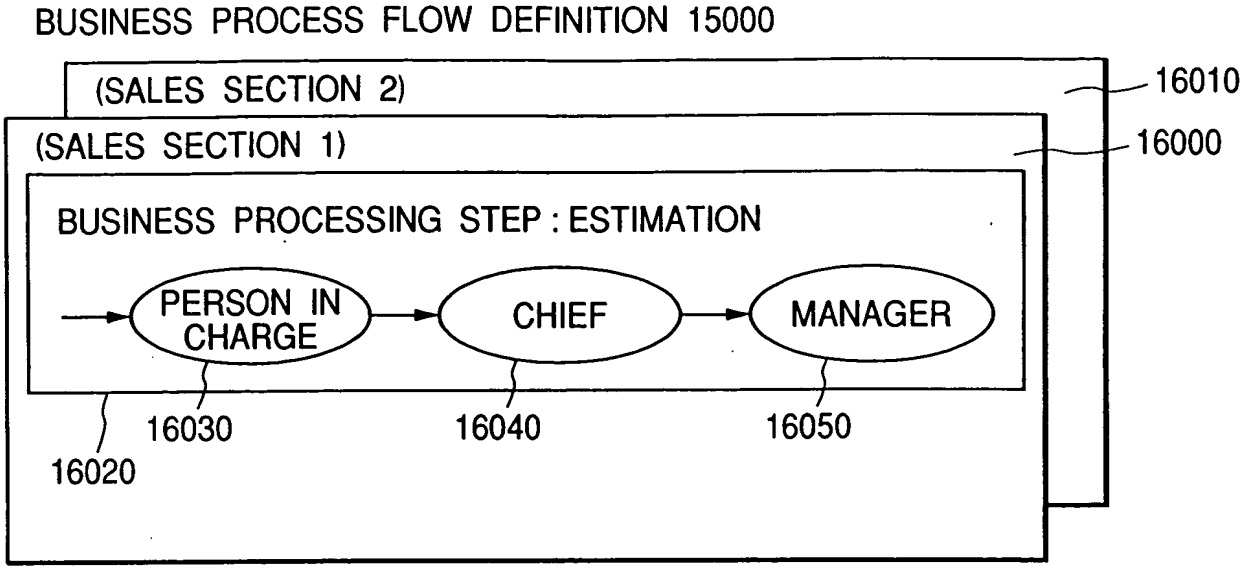

BUSINESS PROCESS FLOW DEFINITION 15000
(SALES SECTION 2)
16010
(SALES SECTION 1)
16000
BUSINESS PROCESSING STEP : ESTIMATION
PERSON IN CHARGE
CHIEF
MANAGER
16020
16030
16040
16050

FIG. 17

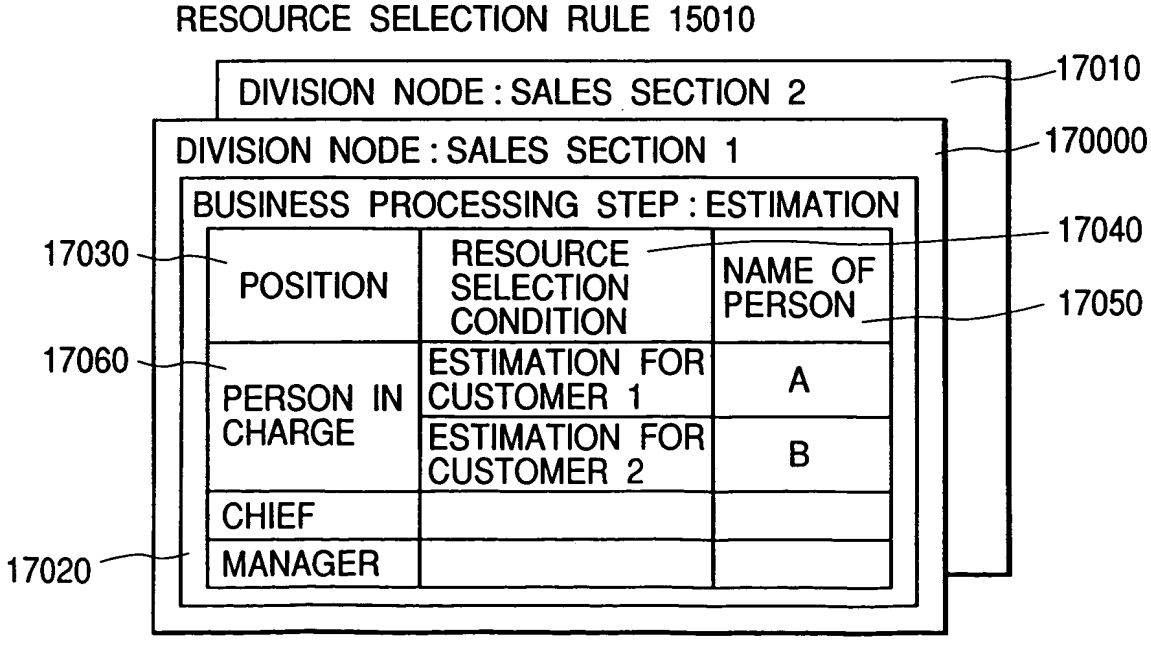

RESOURCE SELECTION RULE 15010
DIVISION NODE : SALES SECTION 2
17010
DIVISION NODE : SALES SECTION 1
170000
BUSINESS PROCESSING STEP : ESTIMATION
17030
17040
17050
17060
17020
POSITION
RESOURCE SELECTION CONDITION
NAME OF PERSON
PERSON IN CHARGE
ESTIMATION FOR CUSTOMER 1
A
ESTIMATION FOR CUSTOMER 2
B
CHIEF
MANAGER

FIG. 18

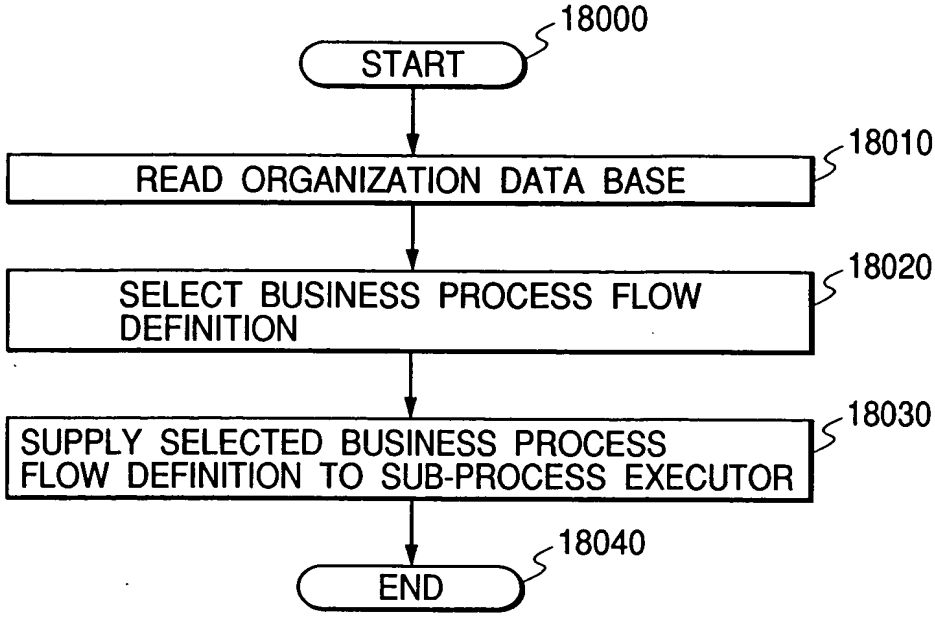

18000
START
READ ORGANIZATION DATA BASE
18010
SELECT BUSINESS PROCESS FLOW DEFINITION
18020
SUPPLY SELECTED BUSINESS PROCESS FLOW DEFINITION TO SUB-PROCESS EXECUTOR
18030
END
18040

FIG. 19

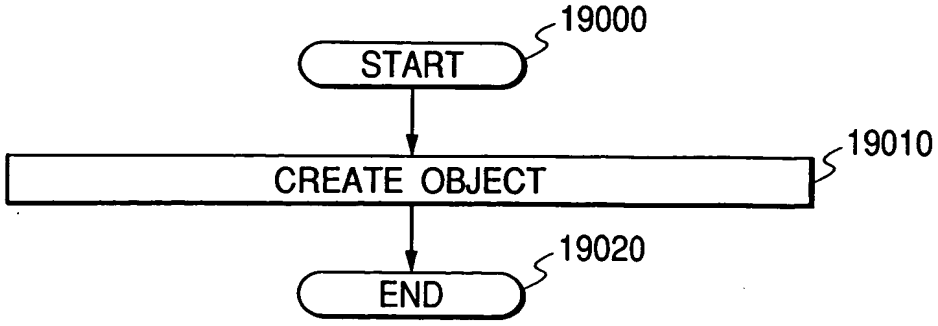

19000
START
CREATE OBJECT
19010
END
19020

FIG. 20

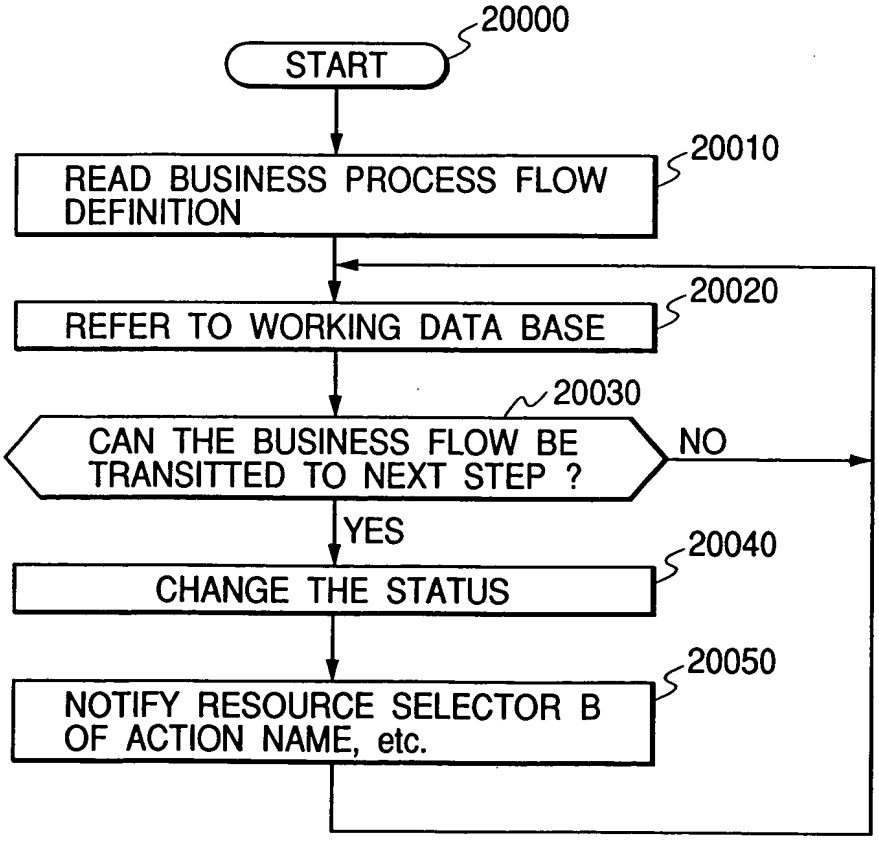
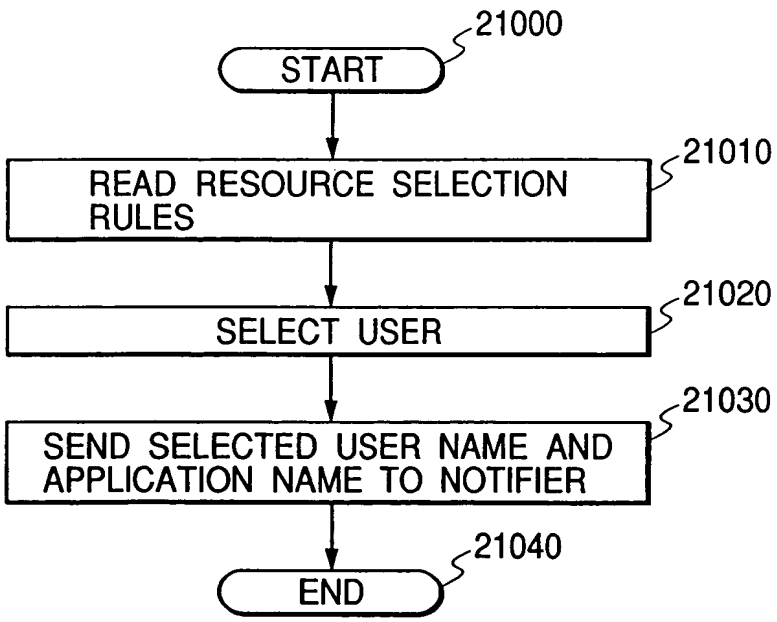

20000
START
READ BUSINESS PROCESS FLOW DEFINITION
20010
REFER TO WORKING DATA BASE
20020
20030
CAN THE BUSINESS FLOW BE TRANSITTED TO NEXT STEP ?
NO
YES
CHANGE THE STATUS
20040
NOTIFY RESOURCE SELECTOR B OF ACTION NAME, etc.
20050

FIG. 21


21000
START
READ RESOURCE SELECTION RULES
21010
SELECT USER
21020
SEND SELECTED USER NAME AND APPLICATION NAME TO NOTIFIER
21030
END
21040